Ulykke Introduction to Norway-Sweden ISI - A cross-border development project

Olycka



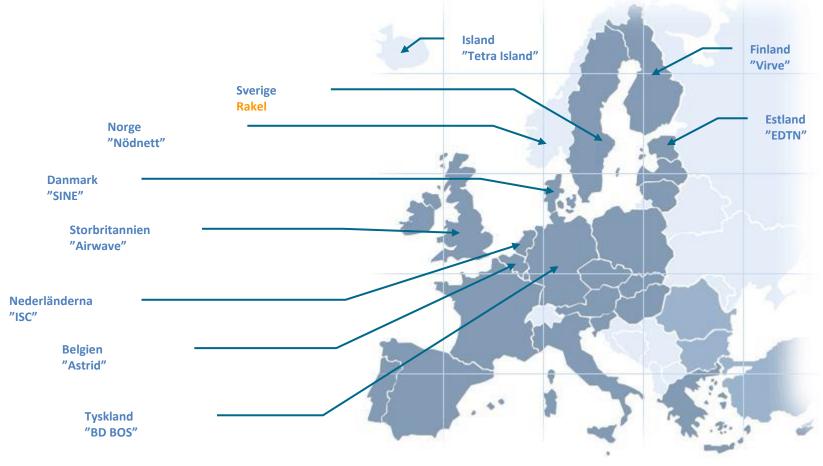


3647

partners



Technical solutions shares by many^{*}



* All coutries/net is not on the PP





Agenda

- Short background
- Participant
- Time line
- Technical requirements
- Multi agency exercise
- The project for the moment

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Two countries with a long tradition of cross-border collaboration



Norway

Population: 5 000 000 Area: 385 000 km2 Population density: 15 persons per km2

Sweden

Population: 9 500 000 Area: 528 000 km2 Population density: 20 persons per km2

Common border: 1619 km





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Condition and challenges are smilar







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Risk and threats do not care about border

- Terrorisme
- Extreme weather (storms, floods)
- Organized crime







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Haga II Declaration – A robust Nordic Region without boarders

The goal for the Nordic Region cooperation concerning civil security and emergency preparedness is the Nordic region without borders.

The collaboration is focused on the ability to prevent, resist, manage, recover and learn from accidents and emergencies.











Norway-Sweden ISI

Cross-border development to support collaboration between crisis management actors in Norway and Sweden in accidents and crises.

Contract signed September 2012.

When dealing with emergencies we must forget about our national borders.











First real implementation of cross-border communication (ISI) in Europe

- Two networks
- Two neighboring countries
- A collaboration project
- First ISI implementation between two national Tetra networks

| order | Air |
|-------|-----|
| | |
| | |
| | |
| | |

Myndigheten för samhällsskydd och beredskap







Project goal

Swedish bluelight actors will use there Rakelterminals in Norway Norwegien bluelight actors will use there Nödnett terminal in Sweden





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Focus is on practical use

Three workgroups with end-users from both Norway and Sweden

- Health/Ambulance service
- Fire/Rescue service
- Police



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Myndigheten för samhällsskydd och beredskap



The project will result in

- Draft legal agreement
- User guidelines
 - Methodology for management and cooperation
 - Structure talk groups
 - Common terminology
- Training for end-users, operators and ٠ decisions makers

A final major exercise where the ISI functionality is put into practic





Felles sambandsreglement for nødetatene og andre beredskapsbrukere

Version 3









Timeline Nor-Swe ISI

| Sept 2012 |
|-----------|
| Dec 2013 |
| Oct 2014 |
| Aug 2015 |
| Nov 2015 |
| |

Cross-border multi-agency exercise

Spring 2016

Myndigheten för samhällsskydd och beredskap







Work packages

Technical delvelopment

- ISI gateway Nødnett and Rakel
- Radio terminal and Control Room SW

Guidelines

 Framework for cross-border communication & collaboration

Agreements

 Communication between two secure national networks

Multi-agency cross-border exercise

Participants

Motorola, Airbus, MSB, DNK, Suppliers MSB, DNK, End users

MSB, DNK

End Users, MSB, DNK

Myndigheten fö samhällsskydd och beredskap



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A technology development group is responsible for

- Technical specifications
- Give input for improvements to ETSI TETRA specifications
- Establish conditions for the test environment
- Propose stepwise delivery of functionality
- Plan and perform acceptance testing



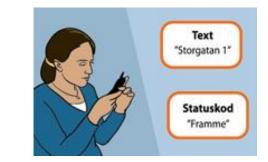






Nor-Swe ISI Features ISI IOP Phase 1-3

Pre-approved radio terminals can work in both networks – Nødnett and Rakel



MOTOROLA

| Authentication | Status |
|-------------------------|----------------------------|
| Individual Call | Short Data Service |
| Group Call | Mobility Management |
| Telephone Call | Air Interface Encryption |
| Emergency Call | Supplementary Services |
| End- to -end Encryption | |







Prerequisites for migration

- Migration with full ITSI, i.e. MCC + MNC + ISSI
- Visitors must be pre-provisioned in the host network
- Authentication in the home network is required
- Host network informs the home network of visitors on migration



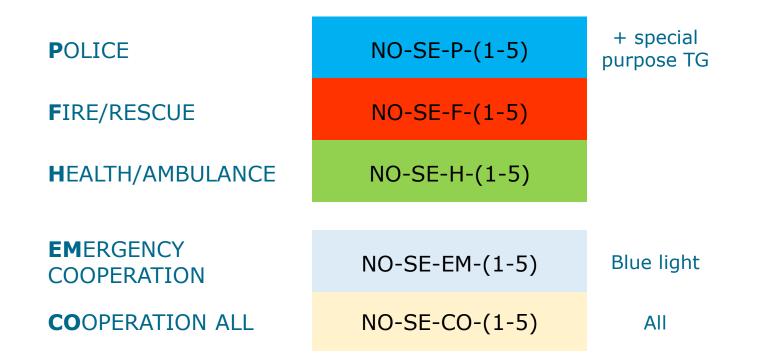








Draft Talkgroups Norway-Sweden ISI







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Some features are different across the border



- Emergency call individual call vs group call
- Speech item queuing not used in Nødnett
- Manual or automatic migration? → radio terminal question
- Cross-border positioning not part of the ISI standard









Radio terminals and Control Rooms

Radio terminals

- ISI requirements ready
- Information meeting with radio June 13 2014 terminal suppliers

Control rooms

- ISI requirements are being developed











To ensure effective cross-border communication we also must bridge across:

Cultures. Organisations. Behaviors. Methods and Procedures.









Nor-Swe ISI will give valuable insight to ISITEP

- Involve end-users even within ISITEP
- Direct input on requirements and operational needs from emergency services
- Well-grounded work
- ISITEP gets a shorter takeoff
- Wider possibilities to succeed and make an impact







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Deliveries to ISITEP

- Legal aspects and templates for agreements
- Preparation of performance requirements linked to scenario and collaboration
- Talk group structure and numbering
- Analysis and preparation of methods for collaboration
- Training/instruction for the different functions
- Planning and implementation of exercise
- Handbook/guidelines for cross-border collaboration



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Thank you!







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Solutions in use today

- Euro-DMO talk groups
- Back-to-back solution (Nor-Swe
- Loan of terminals
- Limited functionality, cannot be used in the other network.







